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 May—Honey bees do pay their way, a repudiation of the GAO report. Increasing honey production with early honey removal. Africanized bees; progress in ID procedures. How acarine disease affects U.S. bees. Trials and tribulations of a "bee broker"
 June—The Mays of Virginia, the Dahlikes of Michigan, the Fassbinders of Iowa.
 July—Controlling Acarine Disease in queen honey bees. Experimenting with comb honey marketing. EAS and WAS convention schedules.
 August—How do honey bees forage? Our visual beekeeping heritage.
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FERRARI INSERT —

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sert facilitates dispersal of precollected pollens into orchards, thereby improving pollination of fruit, nut and seed crops. The new tool differs from other pollen dispensers because of its simplicity, and its ability to rapidly enpollinate an entire colony. The insert forces returning bees to crawl through precollected pollen placed in the entranceway. Bee-to-bee contacts that occur within a colony transfer pollen onto other bees. After about three hours,

pollen is on the majority of bees in a colony. Apple, almond and pear pollens remain viable on body hairs for at least 10 hours.

Importantly, the device permits farmers and beekeepers to control the kind and amount of pollen carried on a forager's body. When used with good quality pollen, the insert is exceptionally effective at supplanting natural pollination by honey bees. Measurements performed in apple orchards indicate that the pollination efficiency of honey bees can be improved by 650%. Pollination of entire orchards can be achieved, even when they lack adequate cross-compatible pollinizers.

About one second is required to place the insert on a standard bottom board. It takes another second to fill the pollen dispenser. Taking two seconds to start a controlled pollination is very fast. Under most circumstances only one or two pollen applications are required per day. Vent-spaces enable bees to vent a hive when the entrance is temporarily filled with pollen, or when hive conditions require extra ventilation. No other pollen dispersal tool works as fast, or is as easy to refill; no other application method is as simple to perform.

When used as an ENTRANCE REDUCER and MOUSE GUARD the insert provides for improved air circulation at the entrance. Like other devices, the insert blocks about 70% of a 3/4-inch wide hive entrance. Unlike other reducers, however, vent-spaces on either side of the reduced entrance create a narrow gap along the bottom of the insert. Thus a small amount of air is allowed to flow directly across the surface of a bottom board. This feature improves air circulation at the entrance and results in dryer bottom boards. Air circulation can occur even if the entrance becomes blocked by dead bees during winter.

In the RESTRICTOR POSITION, bees are prevented from exiting or entering the hive. Two vent-spaces provide for air circulation, thereby preventing death of a colony from suffocation. The insert can be used to quickly stop robbers from invading a hive. It also prevents loss of bees when moving hives.

In summary, the FERRARI INSERT is a durable tool which does better what many farmers and beekeepers already do: provide for hive ventilation, reduce entrances, restrict bee movement, augment pollination and use light or dark colors to control hive temperature. Its special design features preclude use of other more expensive, less effective or labor-consuming devices.

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